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OCT 07 2013

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

Serial No. 13-523 MPS Lic/LES R0 Docket No. 50-423 License No. NPF-49

DOMINION NUCLEAR CONNECTICUT, INC. MILLSTONE POWER STATION UNIT 3 LICENSEE EVENT REPORT 2013-007-00 REACTOR TRIP ON LOW-LOW STEAM GENERATOR LEVEL

This letter forwards Licensee Event Report (LER) 2013-007-00 documenting an event at Millstone Power Station Unit 3 on August 9, 2013. This LER is being submitted pursuant to 10 CFR 50.73(a)(2)(iv)(A) as an event that resulted in manual or automatic actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B), initially reported via event notification 49260 pursuant to 10 CFR 50.72 (b)(2)(iv)(B) and 10 CFR 50.72 (b)(3)(iv)(A).

If you have any questions or require additional information, please contact Mr. William D. Bartron at (860) 444-4301.

Sincerely,

Stephen E. Scace

Site Vice President - Millstone

Attachments: 1

Commitments made in this letter: None

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cc: U.S. Nuclear Regulatory Commission Region I 2100 Renaissance Blvd, Suite 100 King of Prussia, PA 19406-2713

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NRC Senior Resident Inspector Millstone Power Station

Serial No. 13-523 Docket No. 50-423 Licensee Event Report 2013-007-00

ATTACHMENT

LICENSEE EVENT REPORT 2013-007-00 REACTOR TRIP ON LOW-LOW STEAM GENERATOR LEVEL

MILLSTONE POWER STATION UNIT 3 DOMINION NUCLEAR CONNECTICUT, INC.

NRC FORM (10/2010)	O. O. MOGELAN REGILATION COMMISSION								OMB: NO.;						0/31/2013		
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FACILITY NAME Millstone Power Station – Unit 3						ľ	2. DOCKET NUMBER 05000423				ļ	3. PAGE 1 OF 2					
4. TITLE																	
Reactor Tr	ip on Lov	v-Low Ste	eam Ge	enerator Lev	/el												
5. EVENT DATE 6. LER NUMBER 7				7. RE	PORT I	DATE		OTHER FA	ACILITIES INVOLVED								
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9. OPERATING MODE			20.2201(d) 20 20.2203(a)(1) 20 20.2203(a)(2)(i) 50 20.2203(a)(2)(ii) 50			20.2 20.2 20.2 50.3 50.3	203(a) 203(a) 203(a) 203(a) 36(c)(1)	(3)(i) (3)(ii) (4) (i)(A) (ii)(A)	x	50.73(a)(2)(i)(C) 50.73(a)(2)(ii)(A) 50.73(a)(2)(ii)(B) 50.73(a)(2)(iii) X 50.73(a)(2)(iv)(A) 50.73(a)(2)(vii) 50.73(a)(2)(viii)(A) 50.73(a)(2)(viii)(B) 50.73(a)(2)(ix)(A) 50.73(a)(2)(x)			
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NRC FORM 366A (10-2010)	LICENSEE EVENT CONTINUATIO	U.S. NUCLEAR REGULATORY COMMISSION					
	1. FACILITY NAME	2. DOCKET		6. LER NUMBER	3. PAGE		
	Millstone Power Station – Unit 3	05000423	YEAR	SEQUENTIAL NUMBER	REV NO.	2 OF 2	
			2013	- 007 -	00		

NARRATIVE

1. EVENT DESCRIPTION

On August 09, 2013 at 2119, while in MODE 1 at 100 percent power, Millstone Power Station Unit 3 experienced an automatic reactor trip on steam generator (SG) "C" low-low water level. The low-low SG water level condition resulted from all main feed water pump recirculation valves failing full open following a loss of power from non safety-related 480 volt load center 32L. This bus powered the instrumentation loops for all three main feedwater pump recirculation valve controllers. Upon the loss of power, the valves went to their failure state of "Recirculation". The redirection of water into the recirculation lines and back to the main condenser resulted in a loss of feedwater header pressure and flow to the steam generators causing the unit to automatically trip on low-low steam generator level. All control rods fully inserted into the reactor. The auxiliary feedwater system started as designed and maintained steam generator levels. Safety systems functioned as expected. There were no radiological challenges as a result of the event.

This event is being reported in accordance with 10 CFR 50.73(a)(2)(iv)(A) as an event that resulted in manual or automatic actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B).

2. CAUSE

The direct cause of the event was the loss of power to the 480V bus that powered the three main feedwater pump recirculation valve controllers. Troubleshooting efforts did not reveal the cause of the ground that led to the loss of bus 32L.

3. ASSESSMENT OF SAFETY CONSEQUENCES

There were no safety consequences associated with this event.

All control rods inserted following the reactor trip on SG low-low water level. The operating crew responded to the reactor trip by entering Emergency Operating Procedure (EOP) 35 E-0, "Reactor Trip or Safety Injection." Plant mitigating equipment responded as expected with no safety system failures.

The auxiliary feedwater system started automatically on the trip as expected, and restored the SG water levels to their normal operating band, maintaining reactor coolant system (RCS) heat removal. There were no challenges to the fuel, RCS or containment fission product barriers.

4. CORRECTIVE ACTION

Power to the three main feedwater recirculation valves has been temporarily moved to another power supply. Additional corrective actions are being taken in accordance with the station's corrective action program.

5. PREVIOUS OCCURRENCES

None

6. ENERGY INDUSTRY IDENTIFICATION SYSTEM (EIIS) CODES

Steam Generator [SG]

Feed Water [FW] pump [P] recirculation valves [V]

Reactor Protection System [JC]

Auxiliary Feedwater System [BA]